

### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Claim 1. (Previously Considered) A nucleic acid molecule comprising a sequence of nucleotides that encodes a CEA fusion protein, wherein the CEA fusion protein comprises a CEA protein or variant thereof, fused to a subunit B of heat labile enterotoxin of *E. coli* (LTB); wherein the CEA protein is a human CEA protein as set forth in SEQ ID NO:20 wherein amino acids 679-702 of SEQ ID NO:20 are deleted; and wherein the fusion protein is capable of producing an immune response in a mammal.

Claims 2-7 (Canceled)

Claim 8. (Previously Presented) The nucleic acid molecule of claim 1 wherein the LTB is truncated of its signal sequence.

Claim 9-10. (Canceled)

Claim 11. (Currently Amended) A nucleic acid molecule comprising a sequence of nucleotides that encodes a CEA fusion protein, wherein the CEA fusion protein comprises a CEA protein or variant thereof, fused to a subunit B of heat labile enterotoxin of *E. coli* (LTB); wherein the fusion protein is capable of producing an immune response in a mammal; and ~~The nucleic acid molecule of claim 10,~~ wherein the sequence of nucleotides comprises a sequence of nucleotides as set forth in SEQ ID NO:9, SEQ ID NO:11, or SEQ ID NO:12.

Claim 12. (Currently Amended) The nucleic acid molecule of claim 11 ~~[[1]]~~, wherein the sequence of nucleotides is as set forth in SEQ ID NO:12.

Claim 13. (Previously Presented) The nucleic acid molecule of claim 8, wherein the C-terminal end of the CEA protein is fused to the N-terminal end of LTB.

Claim 14-35. (Canceled)